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MONTHLY PROJECT REPORT

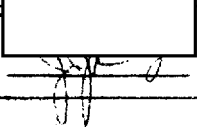
ORIGINATOR(S) OC-E		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 July - 31 July 1957	
<input type="checkbox"/> FUTURE		<input checked="" type="checkbox"/> ACTIVE		<input type="checkbox"/> COMPLETED	
				<input type="checkbox"/> CANCELLED	
				<input type="checkbox"/> SUSPENDED	
PROJECT NUMBER E-5014		PRIORITY CLASS II		PRIM. RSPN. [REDACTED]	
PROJECT ENGINEER [REDACTED]					
PROJECT TITLE VHF/UHF MUX Study					
PROJECT REQUIREMENT To determine what equipment is available to provide more facilities than Agency standard VHF/MUX systems without the high cost and complexity of our standard microwave equipment.					
PROJECT DESCRIPTION To investigate and compile a listing of all commercial and military VHF/UHF MUX equipment with such information as purpose, operational, and physical characteristics and cost.					
APPROVAL DATE June 1955		APPROVED [Signature]		STARTING DATE June 1955	
				COMPLETION DATE	

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No new information on equipments have been added to the list since the last reporting period.

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MONTHLY PROJECT REPORT				
ORIGINATOR(S) OS-2		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 July - 31 July
<input type="checkbox"/> FUTURE <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED				
PROJECT NUMBER E-5020	PRIORITY CLASS I	PRIM. RSPN.	PROJECT ENGINEER	
PROJECT TITLE Modification Work Orders				
PROJECT REQUIREMENT To notify all field stations of standard modifications to equipment.				
PROJECT DESCRIPTION Reproduce necessary copies, assemble and prepare cover letters for all Modification Work Orders. Obtain approval and coordination. Determine category of distribution and forward to appropriate areas.				
APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE	
		8 February 1955		
<p>Modification Work Orders</p> <p>None issued.</p> <p>The following MWO's are being processed:</p> <p>MWO 21 Addition of the PMO-2 Oscillator to the 29T Mobile Radio Station</p> <p>MWO 22 Improving Ventilation of the DDR-2 Diversity Receiving Equipment Rack. This is a required modification.</p> <p>MWO 23 URR-10 Portable DF Set Connector Modification.</p>				

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Approved For Release 2002/11/13 : CIA-RDP78-02820A000300010024-1

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MONTHLY PROJECT REPORT

ORIGINATOR(S) OC-E		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 July - 31 July	
<input type="checkbox"/> FUTURE <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED					
PROJECT NUMBER E-5034		PRIORITY CLASS I		Path: [Redacted] Project Engineer: [Redacted]	
PROJECT TITLE Development of 8" Tape Reel for AFSAM-7					
PROJECT REQUIREMENT Design a tape reel to provide longer running time than is now available with 4" tape reel					
PROJECT DESCRIPTION <p>The design characteristics to include:</p> <p>A. Maximum diameter reel (8").</p> <p>B. Ease of mounting</p> <p>C. Reel mounted in AFSAM-7 carrying case.</p>					
APPROVAL DATE 1 October 1956		APPROVED [Signature]		STARTING DATE 3 October 1956 COMPLETION DATE	
<p>No further action has been taken on this project pending the delivery of the 7 reels from NSA. Delivery of the reels was expected during the month of July. However, to date no word has been received from NSA concerning the delivery date.</p>					

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MONTHLY PROJECT REPORT				
ORIGINATOR(S) OC-E.		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 July - 31 July
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PROJECT NUMBER E-5037	PRIORITY CLASS II	PRIM. RSPN. [REDACTED]	PROJECT ENGINEER [REDACTED]	
PROJECT TITLE Technical Bulletins				
PROJECT REQUIREMENT To keep the field supplied with current technical information pertinent to general operation.				
PROJECT DESCRIPTION Scan technical literature to determine and select items for field distribution, determine distribution category, reproduce required number of copies, prepare cover letters, arrange approval and coordination, and forward to appropriate areas.				
APPROVAL DATE	APPROVED [Signature]	STARTING DATE 2 February 1956	COMPLETION DATE	
<p>Issued: T.B. No. 16 - "Heat Dissipating Tube Shields"</p> <p>This bulletin compares popular commercial tube shields with several new and improved versions which have greater heat dissipating qualities.</p>				

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MONTHLY PROJECT REPORT

ORIGINATOR(S) OC-E	BUDGET EST. FY. 57 AMOUNT 14,5000	REPORTING PERIOD 1 July - 31 July 1957	
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PROJECT NUMBER E-5041	PRIORITY CLASS I	PRIM. RSPN [REDACTED]	PROJECT ENGINEER [REDACTED]
PROJECT TITLE RT-4 Transmitter Repackaging			
PROJECT REQUIREMENT Improve the reliability and operation features of the RT-4 Transmitter and package it with a Portable Master Oscillator in a rack for base station use.			
PROJECT DESCRIPTION The RT-4 Transmitter was originally made for small station intermittent use. Operational use has revealed some technical discrepancies and the transmitter has been placed "on the shelf." This project will be to correct these discrepancies and to mount the transmitter and PMO in the 48 inch rack for base station use. The task of redesign will be given to a consulting firm. A second firm will be given the task of compiling test data on a number of RT-4 Transmitters currently undergoing blower modification. This data will then be given to the first consulting firm.			
APPROVAL DATE 28 February 1956	APPROVED [REDACTED]	STARTING DATE 1 March 1956	COMPLETION DATE
<p>The proposal received from [REDACTED] concerning the work extension to include two RT-4 modulators was not accepted due to a change in requirements and the attendant cost. The Chief, Procurement Division/OL, and [REDACTED] were informed of this decision.</p> <p>One inspection trip to [REDACTED] was made this month and a trip report, dated 18 July 1957, is attached. A tentative test procedure is outlined in this trip report which includes testing of the Modified RT-4 Transmitters at the [REDACTED] before delivery. Approval was given by the chief engineer [REDACTED] for this test.</p> <p>These tests will include "ON-OFF" operation on 50 cycles, 110/220 volt source for approximately four hours. The transmitters will be operated over the full frequency range and will be tested for proper relay operation and temperature rise on transformers and inductors.</p> <p>Additional testing of two or three RT-4 Transmitters will be performed at the I&MB Shop prior to area field testing. The project engineer at [REDACTED] stated that the RT-4 Transmitters will be ready for testing in approximately six weeks.</p>			

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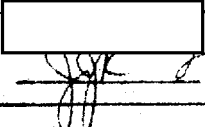


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MONTHLY PROJECT REPORT

ORIGINATOR(S) OC-E	BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 - 31 July 1957	
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PROJECT NUMBER E-5045	PRIORITY CLASS I	PRIM. RSPN.	PROJECT ENGINEER
PROJECT TITLE Transmitter to Antenna Matching Equipment and Information			
PROJECT REQUIREMENT This is a study to determine what equipment should be sent to the major base stations to provide impedance matching information.			
PROJECT DESCRIPTION This study is to investigate what equipment will be sent, how to use it, typical readings and results on similar transmitter/antenna combinations, and how to and reasons for lowering the standing wave ratio. This study will result in the publication of a technical bulletin covering these points.			
APPROVAL DATE January 1956	APPROVED 	STARTING DATE January 1956	COMPLETION DATE
The technical bulletin has been rewritten to include data on the new SWR meter produced by  The bulletin will be released during August for review by other OC-E personnel prior to actual publication by OC-E/SEB/ 			

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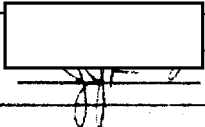
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MONTHLY PROJECT REPORT			
ORIGINATOR(S) OC-E		BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 July - 31 July 1957
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PROJECT NUMBER E-5048	PRIORITY CLASS I	PRIM. RSPN. [REDACTED]	PROJECT ENGINEER [REDACTED] 25X1A9A
PROJECT TITLE Motorola VHF/MUX Equipment for Stand-By Switchover			
PROJECT REQUIREMENT Provide compatible stand-by facilities for VHF/MUX systems when used as primary link.			
PROJECT DESCRIPTION Determine the feasibility and cost of adding stand-by RF units and power supplies for switch over use when the VHF/MUX is the primary link. In addition an investigation will be made over the possible installation of ventilating fans when the equipment is operated under high ambient temperatures. A second phase of this project will be to prepare a bill of materials of operating spares which should be included with each MUX link. 25X1A9A			
APPROVAL DATE 20 October 1956	APPROVED [REDACTED] [Signature]	STARTING DATE February 1957	COMPLETION DATE
Work continues on the compilation on a Bill of Materials and the design of a ventilating system for the MUX Links. However, the Project Engineer attended school at [REDACTED] during the last two weeks of this reporting period and consequently, not too much progress has been made. 25X1A6A			

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MONTHLY PROJECT REPORT

ORIGINATOR(S) OC-E		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 July - 31 July 1957	
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<input type="checkbox"/> CANCELLED		<input type="checkbox"/> SUSPENDED			
PROJECT NUMBER E-5050		PRIORITY CLASS I		PRIM. RSPN. <div style="border: 1px solid black; width: 150px; height: 15px;"></div>	
PROJECT ENGINEER 25X1A9A					
PROJECT TITLE Modification of the Collins 16-F and 231-D Transmitters					
PROJECT REQUIREMENT Determine modification to operate Collins 16-F and 231-D Transmitters below 4 mc. when the excitation frequency is equal to the output frequency.					
PROJECT DESCRIPTION <p>These transmitters multiply the input frequency by the factor of 2, 4, or 3. It is intended to have a consulting engineer investigate this problem and recommend possible transmitter modifications. The results of this investigation will be published as a standard Modification Work Order.</p>					
APPROVAL DATE 1 May 1956		APPROVED <div style="border: 1px solid black; width: 100px; height: 30px; text-align: center;">  </div>		STARTING DATE 5 June 1956	
				COMPLETION DATE	
<p>A trip was made to <div style="border: 1px solid black; width: 100px; height: 15px;"></div> and the trip report is attached.</p>					
<p>A minor mechanical change had to be incorporated on a XTAL-VFO switch. This switch was originally mounted underneath and approximately twelve inches from the front of the Power Amplifier chassis. It was suggested by the Project Engineer that a shaft extension and a right-angle drive be utilized to bring this switching function to the front of the PA chassis making it easier to see and operate. The <div style="border: 1px solid black; width: 100px; height: 15px;"></div> project engineer concurred and has incorporated this change in the modification.</p>					
<p>In order to test the modification kits for both installation instruction clarity and transmitter operation it is planned, and the approval received from the Chief, <div style="border: 1px solid black; width: 50px; height: 15px;"></div>, to install one modification kit on a 16-F transmitter at <div style="border: 1px solid black; width: 50px; height: 15px;"></div>. Delivery of the remaining kits should be approximately two weeks after this initial test.</p>					
<p>An inspection report on this project was forwarded to Chief, Inspection Branch/PD/OL, stating that <div style="border: 1px solid black; width: 100px; height: 15px;"></div> is progressing satisfactorily.</p>					

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MONTHLY PROJECT REPORT

ORIGINATOR(S) OC-E	BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 - 31 July 1957	
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PROJECT NUMBER E-5055	PRIORITY CLASS II	PRIM. RSPN. [REDACTED]	PROJECT ENGINEER [REDACTED]
PROJECT TITLE Test Equipment Standardization			
PROJECT REQUIREMENT Compile a list of standard test equipment for the Office of Communications' use.			
PROJECT DESCRIPTION Investigation has shown that some of the test equipment for use and stock is outdated and in many cases types of equipment are duplicated. This project will be to review OC support requirements and prepare a list of standard test equipment to support these requirements. This list will be used for procurement and stocking purposes.			
APPROVAL DATE 29 October 1956	APPROVED WAB /s/ JJK /s/	STARTING DATE February 1957	COMPLETION DATE

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A catalog of voltage and current measuring equipment, frequency measuring equipment, and waveform measuring equipment has been prepared. This catalog lists functional characteristics, electromechanical characteristics, FIIN number, approximate cost when last procured for stock, and tentative classification (standard, limited standard, etc.). This catalog is to provide a basis of comparison between items in the same category to determine their ultimate classification, (standard, limited standard, etc.). It is contemplated that this catalog will be completed on or about 15 August, and it will then be distributed to interested parties for comment.

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MONTHLY PROJECT REPORT			
ORIGINATOR(S) OC-P	BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 - 31 July 1957	
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PROJECT NUMBER E-5060	PRIORITY CLASS I	PRIM. RSPN. [REDACTED]	PROJECT ENGINEER [REDACTED]
PROJECT TITLE Strategic Reserve Program			
PROJECT REQUIREMENT To provide readily available transportable type package radio stations at convenient locations throughout the world for immediate installation and operational use in the event of an emergency.			
PROJECT DESCRIPTION To provide bills of materials for 2, 5, 10, 13, 15, and 20 position transportable type package radio stations with suggested floor plan layouts and standard wiring diagrams to provide efficient equipment utilization.			
APPROVAL DATE September 1953	APPROVED <u>WAB /s/</u> <u>JJK /s/</u>	STARTING DATE September 1953	COMPLETION DATE
<p>The 15 Position Bill of Materials was forwarded to OC-E/MSB for procurement, assembly, packing, and shipping action.</p> <p>The 20 Position Bill of Materials was completed with the addition of circuit breaker equipment and power cables. It is being placed in its final form prior to submittal to OC-O&T and OC-P for approval.</p>			

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ORIGINATOR(S) OC-O&T		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 - 31 July 1957	
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PROJECT NUMBER E-5080		PRIORITY CLASS I		PROJECT ENGINEER [REDACTED]	
PROJECT TITLE Mobile Message Center					
PROJECT REQUIREMENT A Mobile Message Center is required as a companion unit to the 2-ST radio facility for processing staff traffic.					
PROJECT DESCRIPTION <p>The project will require the design of a facility with the following functions</p> <ul style="list-style-type: none"> A. Supervisors or C. W. Position B. 2 Manual OTP Positions C. 1 RTTY Position or utilized for duplex land line operation D. 1 AFSAM-7 Position E. 1 Tiny Tot Position F. 1 Reproduction Unit <p>It is planned to house the Message Center in a modified two-wheel [REDACTED] approximately twelve feet long, ten feet high, and eight feet wide, towed by a two and one-half ton truck.</p>					
APPROVAL DATE August 1956		APPROVED WAB /s/ JJK /s/		STARTING DATE August 1956	
COMPLETION DATE					

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MONTHLY PROJECT REPORT

ORIGINATOR(S) OC-E	BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 July - 31 July
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PROJECT NUMBER E-5083	PRIORITY CLASS I	PRIM. RSPN. PROJECT ENGINEER
PROJECT TITLE Evaluation of the 60 KW Cummins Diesel Generator Set		
PROJECT REQUIREMENT A 60 KW Cummins Generator is being procured for comparison purposes with G.M.C. Generators and will be installed as a fourth Generator at [REDACTED]		
PROJECT DESCRIPTION The purpose of this project will be to determine the following: <ol style="list-style-type: none"> 1. The advantages gained by the electrically operated governor over the Hydraulic type. 2. The versatility of having a convertible 50/60 cycle unit and the amount of time that is consumed to accomplish the conversion. 3. Compare the flexibility of the voltage ranges in comparison to the G.M.C. Model. 4. Determine the fuel consumption under various load conditions. 5. In conclusion, determine whether or not this unit should be carried as a standard stock item. 		
APPROVAL DATE 5 October 1956	APPROVED [REDACTED]	STARTING DATE 5 October 1956
COMPLETION DATE		
<p>The Real Estate and Construction Division is in the process of calculating the estimated cost of installing this unit. The unit will be located adjacent to the [REDACTED] generator at station [REDACTED] as planned.</p> <p>It is expected that this estimate will be received by the Office of Communications on or before August 15, 1957.</p>		

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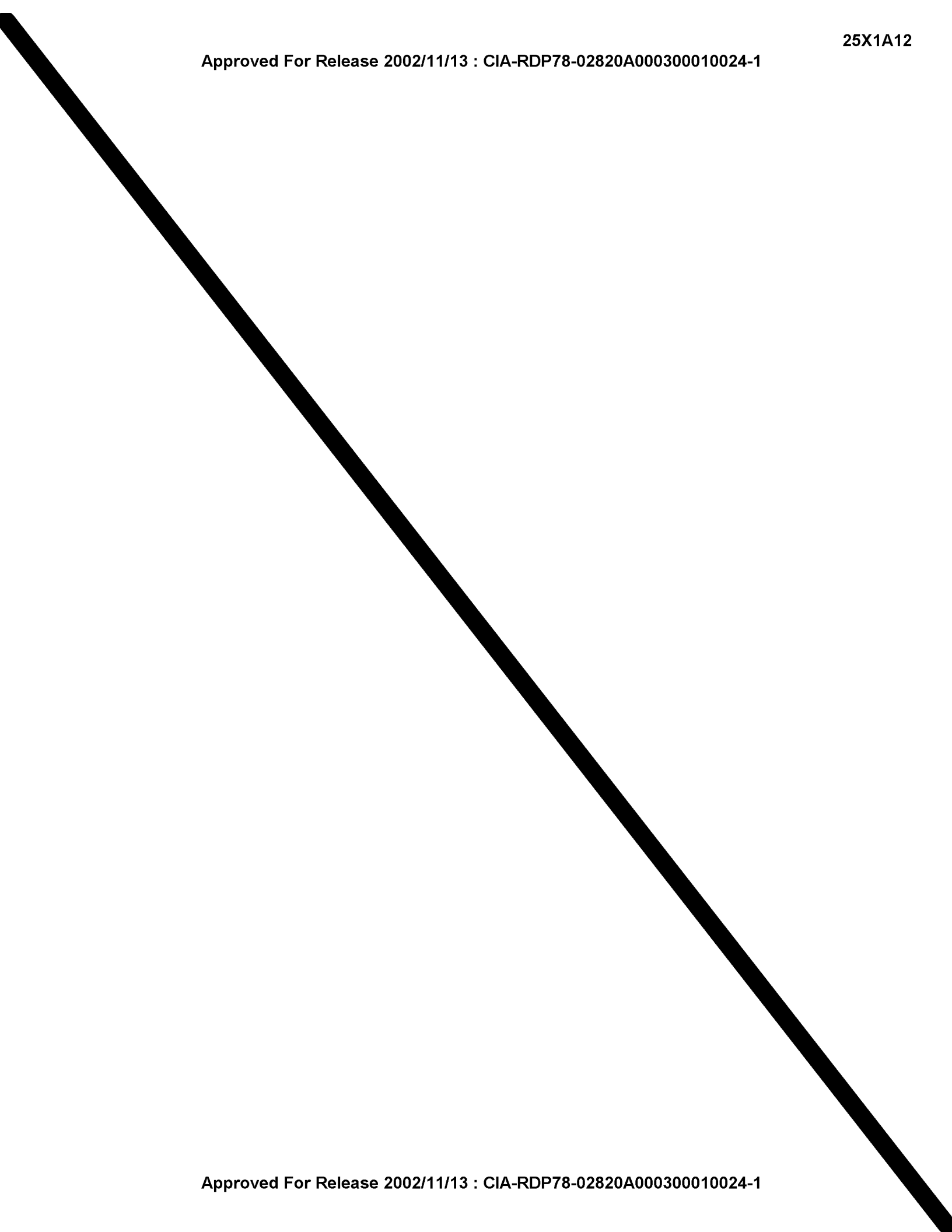
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MONTHLY PROJECT REPORT			
ORIGINATOR(S) OC-E		BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 - 31 July 1957
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PROJECT NUMBER E-5085	PRIORITY CLASS I	PRIM. RSPN. [REDACTED]	PROJECT ENGINEER [REDACTED]
PROJECT TITLE Communications Systems Planning for New Headquarters Building			
PROJECT REQUIREMENT To determine the types of Communications systems, and the quantities of equipment that will be required for installation in the new Headquarters Building to meet Agency communications requirements.			
PROJECT DESCRIPTION To investigate and compile information on new communications systems and equipment. To meet regularly with representatives of the Message Center Staff, Operations, Engineering, and Security Divisions, and the OC member of the New Building Planning Staff to discuss communications requirements for the new building. To prepare a list of the equipment that will be required and suggested floor plans and equipment layouts defining spare requirements.			
APPROVAL DATE January 1957	APPROVED WAB /s/ JJK /s/	STARTING DATE January 1957	COMPLETION DATE

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Path profiles prepared for a microwave link between the Langley building site to [REDACTED] revealed that a direct path would require a 400 foot tower at Langley for proper Fresnel zone clearance. An alternative route, which would be more practical, and which would obviate the requirement for a large tower, would be to install a relay at [REDACTED] and mount the necessary microwave RF housing and antenna on the roof of the new building where it would not be conspicuous. This material was forwarded to members of the New Building Planning Committee for discussion and comment.

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MONTHLY PROJECT REPORT			
ORIGINATOR(S) OC-S/CSD 6-610		BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 - 31 July 1957
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PROJECT NUMBER E-5086	PRIORITY CLASS I	PRIM. RSPN. [REDACTED]	PROJECT ENGINEER [REDACTED] 25X1A9A
PROJECT TITLE Monitor Equipment for OC-S			
PROJECT REQUIREMENT To provide suitable equipment for the purpose of monitoring voice communications on the frequencies between 165 and 175 megacycles [REDACTED] 25X1			
PROJECT DESCRIPTION Procure and assemble the following equipment for installation in the vault area located in Room 2401 "I" Building: A. VHF Receiver B. Omnidirectional Antenna C. Voice Activated Tape Recorder			
APPROVAL DATE December 1956	APPROVED WAB /s/ JJK /s/	STARTING DATE December 1956	COMPLETION DATE
<p>The equipment was received and modified for the particular needs of this project.</p> <p>Installation has been completed and OC-S personnel have been instructed in its use. The project will be completed during the next reporting period.</p>			
Approved For Release 2002/11/13 : CIA-RDP78-02820A000300010024-1			

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ORIGINATOR(S) OC-E		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 July - 31 July 1957
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PROJECT NUMBER E-5083	PRIORITY CLASS I	PRIM. RSPN.	PROJECT ENGINEER 25X1A9A	
PROJECT TITLE Electronic Motor Stop				
PROJECT REQUIREMENT Provide semi-automatic motor control, responsive to the reception of a forty-five second steady state signal for stopping the motors. The combined opening and closing of the signal line shall place the motors in operation.				
PROJECT DESCRIPTION Modify the Electronic Motor Stop drawing 15-20 so that it is also receptive to a steady state open circuit. A schematic drawing will be submitted to an outside contractor for a cost estimate on 30 units. Twelve units will go to [] as per requisition #137-035-57. The balance of units will be placed in warehouse stock. 25X1				
APPROVAL DATE 13 January 1957	APPROVED WAB /s/ JKK /s/	STARTING DATE 21 January 1957	COMPLETION DATE	
<p>The promise of a July delivery of the units was based on a mid-July delivery of the Potter-Brumfield relays. A change of delivery schedule for the relays is now 5 August 1957.</p> <p>A prototype unit was completed and inspected. Two changes were required:</p> <ol style="list-style-type: none"> 1. Heavier AC power wiring and 2. The change of a substituted 4 microfarad capacitor to the originally required 3 microfarad capacitor. <p>This particular capacitor controls the removal of the AC from the equipment on an open line.</p> <p>[] will complete the balance of 14 units by 1 August. When the relays are received they will be mounted in the complete units and the units tested and shipped. 25X1A5A1</p> <p>The Instruction manual will be completed by 5 August.</p>				

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MONTHLY PROJECT REPORT

ORIGINATOR(S) [] OC-O&T		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 - 31 July 1957
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PROJECT NUMBER E-5089	PRIORITY CLASS I	PRIM. RSPN. []	PROJECT ENGINEER []	
PROJECT TITLE Selective Calling Systems				
PROJECT REQUIREMENT To determine what type, if any, selective calling system can be adapted for use in our overseas installations in order that stations may be alerted during unattended watch periods of emergency situations.				
PROJECT DESCRIPTION <p>To investigate and compile a listing of all types of selective calling systems with such information as purpose, operational, technical and physical characteristics, and cost.</p> <p>To select by operational and technical evaluations, if necessary, and recommend one of these systems be adopted.</p> <p>If approved, to implement procurement and installation.</p>				
APPROVAL DATE December 1956	APPROVED WAB /s/ JJK /s/	STARTING DATE January 1957	COMPLETION DATE	

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A Brelco Alarm Unit was borrowed from the U. S. Coast Guard during this reporting period for thirty days. This type alarm unit responds to pre-set international Morse call letters and is a self contained unit complete with crystal controlled receiver. Operational use proved to be critical in that Boehme keying was required for reliable activation of the equipment. It is planned to continue further investigation of the unit to determine the extent of the modifications necessary in order that the equipment be activated under conditions of various types of manual keying.

No further information has been received from the [] re-garding the prototype [] "Traffic Monitor" which was installed in the 14th Naval District on a trial basis and shortly after the initial installation experienced equipment failure.

Due to TDY requirements in SDS, this project has been transferred to EES.

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ORIGINATOR(S) OC-E		BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 July - 31 July 1957
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PROJECT NUMBER E-5090	PRIORITY CLASS I	PRIM. RSPN. [REDACTED]	PROJECT ENGINEER [REDACTED] 25X1A9A
PROJECT TITLE On-Line Tiny-Tot			
PROJECT REQUIREMENT Develop on-line tiny-tot that will meet N.S.A. requirements for on-line operation. Low line radiation is also required.			
PROJECT DESCRIPTION Develop circuitry for an on-line tiny-tot using the XD-91 dual channel transmitter-distributor. Develop necessary conversion and control chassis compatible with the modified XD-91. Make complete operational and radiation checks on the completed units. If possible the on-line tiny-tot should be compatible with the 131-E2.			
APPROVAL DATE 15 November 1956	APPROVED [REDACTED]	STARTING DATE 15 November 1956	COMPLETION DATE [REDACTED] 25X1A9A
<p>An On-Line system, using a short tape loop, was discussed with the [REDACTED]. They will make a feasibility check on the use of this system and give us a fixed cost for each full duplex system. A Memorandum to the File by [REDACTED] which is attached, details the trip to [REDACTED]. 25X1A5A1</p> <p>The Tape Loop system uses on Off-Line Tiny Tot with a reperforator tape loop to a transmitter-distributor on the line, for sending, and a reperforator receiving a signal and providing a tape loop.(or 5 wire output if possible) to the diplex Tiny Tot TD, for receiving. 25X1A9A</p> <p>25X1A5A1</p>			

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MONTHLY PROJECT REPORT

ORIGINATOR(S) CSD 6-352		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 July - 31 July 1957	
<input type="checkbox"/> FUTURE <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED					
PROJECT NUMBER E-5092		PRIORITY CLASS I		PRIM. RSPN. PROJECT ENGINEER	
PROJECT TITLE Fabrication of Tiny-Tots, Associated Components, and Modification Kits.					
PROJECT REQUIREMENT Make 162 Tiny-Tots as required by Commo. Security Division.					
PROJECT DESCRIPTION <p>162 XD-91 Duplex Transmitter-Distributors will be modified for Tiny-Tot operation by complete rewiring and addition of components. A kit containing the required parts to modify the Model-19 and the Model-14 for Tiny-Tot operation will be assembled.</p> <p>Components to complete 270 keyboard modifications kits will be fabricated. This quantity will fulfill the requirements for modification of keyboards on existing Tiny-Tot units and the 172 new units. The modification of the XD-91 will be performed by a local contractor as well as the fabrication of all the required components.</p>					
APPROVAL DATE 21 February 1957		APPROVED 		STARTING DATE 25 February 1957	
COMPLETION DATE					
<p>Seventeen TD's, with synchronous motors, have been delivered to the warehouse. Ten TD's, with series governed motors, have been delivered to the Section/I&MB by These will be adjusted, tested, and delivered to the warehouse.</p> <p>A trip was made to the to discuss fabrication of complete Tiny Tot units. A report on this trip can be found in the attached Memorandum to the File by </p> <p>Delivery of the Keyboard Modification Kits #2 will be held up about three months. Parts that were scheduled for use in these kits will be shipped to so that a faster delivery can be made on 36 complete Tiny Tot units and 12 extra TD's that they will build for us. An order will be given to to fabricate the necessary parts to replace those shipped to the </p>					

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MONTHLY PROJECT REPORT			
ORIGINATOR(S) OC-E	BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 July - 31 July	
<input type="checkbox"/> FUTURE	<input checked="" type="checkbox"/> ACTIVE	<input type="checkbox"/> COMPLETED	<input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED
PROJECT NUMBER E-5093	PRIORITY CLASS I	PRIM RSPN	PROJECT ENGINEER [REDACTED] 25X1A9A
PROJECT TITLE Study of Television Interference Produced by Some Commo. Transmitters			
PROJECT REQUIREMENT A study of some Agency transmitting equipment is needed to determine the extent of television interference radiated from this equipment.			
PROJECT DESCRIPTION Determine what are acceptable standards in commercial and amateur practice insofar as harmonic radiation related to television interference is concerned. Cause the types of equipment normally used by the Office of Communications to be subjected to tests to see if they meet the above specifications. This would include the RT-1, RT-1B, URT-11, HT-4, and RT-4. If any of this equipment fails to meet the acceptable standards, determine what can be done to bring it within specifications. Recommend a course of action to be taken.			
APPROVAL DATE 20 February 1957	APPROVED [REDACTED]	STARTING DATE 21 February 1957	COMPLETION DATE [REDACTED] 25X1A9A
In further checking of the proposal received from [REDACTED], it was suggested by the Chief, Engineering Division that an extension of the upper frequency limit be made. Specifically, this change increases the upper frequency limit of investigation of conducted radiation from 100 megacycles to 250 megacycles. The chief engineer at [REDACTED] has been consulted and has agreed to incorporate this frequency extension at no additional cost. This change is outlined in full in the attached report of a trip made to [REDACTED] dated 18 July 1957. 25X1A5A1			
The original memorandum has been changed to include this frequency extension and has been sent to the Office of Logistics. 25X1A5A1			

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MONTHLY PROJECT REPORT

ORIGINATOR(S) OC-E		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 July - 31 July 1957	
<input type="checkbox"/> FUTURE		<input checked="" type="checkbox"/> ACTIVE		<input type="checkbox"/> COMPLETED	
<input type="checkbox"/> CANCELLED		<input type="checkbox"/> SUSPENDED			
PROJECT NUMBER E-5094		PRIORITY CLASS I		PRIM. RSPN. [REDACTED]	
PROJECT ENGINEER [REDACTED]					
PROJECT TITLE Radio Frequency Amplifiers (1,000 watts)					
PROJECT REQUIREMENT Investigate specifications, cost and availability of RF power amplifiers in the 1,000 watt range to determine suitability for Commo. use. These must be compatible for use with existing or planned Commo. low power transmitters as the driving source.					
PROJECT DESCRIPTION Investigate commercial and military equipment to find a radio frequency amplifier covering the 2 to 32 megacycle range with approximately one kilowatt input on C.W. and also capable of linear amplifier operation to handle single sideband. If any are found acceptable, to recommend procurement and stock levels.					
APPROVAL DATE February 1957		APPROVED [Signature]		STARTING DATE February 1957	
COMPLETION DATE					

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The Barker and Williamson L-1000-A and the Eldico SSB-1000-MIL have been technically evaluated and a comprehensive report has been drafted on each amplifier. Briefly, comparison of these reports indicate that the SSB-1000-MIL is more in line with the project requirements than the L-1000-A, but even so, the SSB-1000-MIL has a few troubles that would have to be reworked if we were to stock it. Firm recommendations are being withheld pending further technical investigation of additional linear amplifiers.

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MONTHLY PROJECT REPORT

ORIGINATOR(S) OC-O&T 57-062		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 July - 31 July 1957	
<input type="checkbox"/> FUTURE		<input checked="" type="checkbox"/> ACTIVE		<input type="checkbox"/> COMPLETED	
<input type="checkbox"/> CANCELLED		<input type="checkbox"/> SUSPENDED			
PROJECT NUMBER E-5095		PRIORITY CLASS I		PRIM. RSPN. PROJECT ENGINEER	
PROJECT TITLE Automatic Frequency Scanning Devices					
PROJECT REQUIREMENT Equipment is needed for automatic frequency scanning and recording to replace the time consuming and inefficient manual method.					
PROJECT DESCRIPTION Investigate the availability, cost and specifications of U. S. Manufactured frequency scanning and recording equipment. If none are available, general specifications will be written and contact made with equipment manufacturers to get an estimate of the cost of such equipment. This cost information will be sent to the project originator and if approved, detail specifications will be written and the equipment procured.					
APPROVAL DATE 25 February 1957		APPROVED [Signature]		COMPLETION DATE 25 February 1957	

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An outline of specifications for a suitable scanning drive and recording device was drafted and transmitted to [redacted]. A similar outline of the current thinking of [redacted] on what the parameters of the equipment should be was received at this Office. [redacted] initial ideas seem to follow the project requirement quite closely in most respects; however, the size of recording paper and resolution given would have to be altered somewhat. Conferences have been arranged between the Equipment Engineering Section and [redacted] in which these differences may be resolved.

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MONTHLY PROJECT REPORT

ORIGINATOR(S) [redacted]	BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 July - 31 July 1957
<input type="checkbox"/> FUTURE	<input type="checkbox"/> ACTIVE	<input type="checkbox"/> COMPLETED
<input type="checkbox"/> CANCELLED	<input checked="" type="checkbox"/> SUSPENDED	
PROJECT NUMBER E-5098	PRIORITY CLASS I	PRIM. RSPN. [redacted]
PROJECT ENGINEER [redacted]		
PROJECT TITLE "10-20" Line Feed Counter		
PROJECT REQUIREMENT Fabricate twelve "10-20" Line Feed Counters which will automatically count the number of lines, either 10 or 20, and then render the model-19 keyboard and tape perforator inoperative. A reset is to be supplied so that at the end of 10 or 20 lines, another page can be started. (Memo from [redacted] dated 7 February 1957).		
PROJECT DESCRIPTION		
<p>The design of the present "10-20" Line Feed Counter will be modified to eliminate mechanical instability of this unit. Teletype components will be ordered and all other necessary components will be fabricated for twelve counters.</p> <p>Assembly and wiring of the units will be accomplished through a local contractor. Five completed units will be sent [redacted] The balance of 7 units will be placed in warehouse stock.</p>		
APPROVAL DATE March 1957	APPROVED [redacted]	STARTING DATE March 1957
COMPLETION DATE [redacted]		

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[redacted] of [redacted] has inspected and approved the new counter unit.

All Teletype parts, except two items, have been received. These two items will not hold up the assembly and wiring of the units. The [redacted] Section/I&MB has begun work on the units and is progressing well. Completion is expected within the next forty-five days.

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This project will be suspended by SEB until the counter units have been completed and readied for delivery to [redacted]

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MONTHLY PROJECT REPORT				
ORIGINATOR(S) OC-E		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 July - 31 July 1957
<input type="checkbox"/> FUTURE	<input checked="" type="checkbox"/> ACTIVE	<input type="checkbox"/> COMPLETED	<input type="checkbox"/> CANCELLED	<input type="checkbox"/> SUSPENDED
PROJECT NUMBER E-5099	PRIORITY CLASS I	PRIM. RSPN.	PROJECT ENGINEER	
PROJECT TITLE Frequency Extension of the 231-D Transmitter				
PROJECT REQUIREMENT To determine the modification necessary to extend the upper frequency operating range of the Collins type 231-D Transmitter from 26 to 28.5 megacycles.				
PROJECT DESCRIPTION This problem will be turned over to an outside consulting engineering firm for investigation. They will determine if the frequency range can be extended from 26 to 28.5 megacycles without major modifications. If the results indicate that this frequency extension is possible, a Modification Work Order and kits will be made to facilitate this modification on specific transmitters as directed by the Operations & Training Division.				
APPROVAL DATE February 1957	APPROVED	STARTING DATE March 1957	COMPLETION DATE	
<p>It was reported last month that [] expected delivery some- time this month of a suitable terminating resistor for final testing. Since the manufacturer has not yet supplied [] with this resistor, no work was accomplished on this project during this reporting period.</p> <p>As reported previously, when delivery of this resistor is made, progress should be quite satisfactory as all the engineering work has been accomplished with the exception of final testing.</p> <p>An inspection report was drafted and forwarded to the Chief, Inspection Branch/PD/OL and mention was made of the delay due to the lack of a suitable terminating resistor.</p>				

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MONTHLY PROJECT REPORT									
ORIGINATOR(S) OC-E/OC-O&T		BUDGET EST. FY. AMOUNT \$21,000	REPORTING PERIOD 1 July - 31 July 1957						
<input type="checkbox"/> FUTURE <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED									
PROJECT NUMBER E-5102	PRIORITY CLASS I	PRIM. RSPN. [REDACTED]	PROJECT ENGINEER 25X1A9A						
PROJECT TITLE Voice Link for 6-ST									
PROJECT REQUIREMENT Provide a voice link between the transmitter and receiver vans based on suggestions from operation [REDACTED] 25X1A2									
PROJECT DESCRIPTION Design and install in the two 6-ST units currently at the [REDACTED] warehouse a voice link capable of providing communication between the transmitter and receiver vans. The link should have the following capabilities: 25X1A6A <ul style="list-style-type: none"> a. Power output and range approximating the MUX Link. b. Be portable or work in conjunction with an extra portable unit. c. Work into the present MUX antenna system or provide a separate antenna system. <p>Once the above is accomplished, a modification work order will be published for the rework of the remaining 6-ST's.</p>									
APPROVAL DATE May 1957	APPROVED [REDACTED]	STARTING DATE	COMPLETION DATE 25X1A9A						
<p>The request for a cost estimate on the mounting racks and brackets for the Motorola Handie-Talkie and L-43GGB was returned by [REDACTED] as follows: 25X1A5A1</p> <table border="0"> <tr> <td>L-43GGB mount</td> <td>\$13.31 ea.</td> </tr> <tr> <td>P-33-4 rack</td> <td>28.43 ea.</td> </tr> <tr> <td>P-33-4 bracket</td> <td>4.75 ea.</td> </tr> </table> <p>Since these costs seem rather high, a check is being made to determine if it is feasible to have these racks manufactured by the R&D Laboratory.</p> <p>A voice intelligibility test was conducted by using audio filters to attenuate the higher voice frequencies. This was done to determine if the use of audio filters in the MUX Link would allow simultaneous keying line operation with voice transmission.</p> <p>The tests indicate a low pass filter with a cut off frequency of 1800 can be used to provide a channel and eight keying circuits can be multiplexed in the 1800 to 3000 cycle band.</p>				L-43GGB mount	\$13.31 ea.	P-33-4 rack	28.43 ea.	P-33-4 bracket	4.75 ea.
L-43GGB mount	\$13.31 ea.								
P-33-4 rack	28.43 ea.								
P-33-4 bracket	4.75 ea.								

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MONTHLY PROJECT REPORT

ORIGINATOR(S) OC-E		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 July - 31 July 1957	
<input type="checkbox"/> FUTURE		<input checked="" type="checkbox"/> ACTIVE		<input type="checkbox"/> COMPLETED	
				<input type="checkbox"/> CANCELLED	
				<input type="checkbox"/> SUSPENDED	
PROJECT NUMBER E-5103		PRIORITY CLASS I		PROJECT ENGINEER [REDACTED]	
PROJECT TITLE Multiplex System for Base Station to Sub-Base Stations Communications					
PROJECT REQUIREMENT To provide a system of communications for base to sub-base operation to meet expanding communication commitments without extensive plant expansion.					
PROJECT DESCRIPTION Investigate and compile a report on the practicability of utilizing multiplex equipment on staff circuits, formulate systems where utilization is practical and make comparison costs with systems currently in use where expansion is contemplated or in areas where expanding communication commitments to staff circuits could justify multiplex communications.					
APPROVAL DATE May 1957		APPROVED [REDACTED]		COMPLETION DATE May 1957	
STARTING DATE May 1957					
<p>A trip to [REDACTED] was made during this reporting period to investigate their equipment and facilities. The results of this trip are contained in the attached trip report, dated 5 July 1957. The major accomplishment of the trip for this project was the promise of an analysis of the system by [REDACTED]</p> <p>[REDACTED] made a trip to Washington to discuss the results of his analysis, which indicated that equivalent or better service can be provided with this system. The basic equipment to be used in this system has been decided on and a report covering cost per channel and other advantages of this system versus conventional service is being compiled and should be submitted during the next reporting period.</p>					

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MONTHLY PROJECT REPORT			
ORIGINATOR(S) OC-E	BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 July - 31 July	
<input type="checkbox"/> FUTURE	<input checked="" type="checkbox"/> ACTIVE	<input type="checkbox"/> COMPLETED	<input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED
PROJECT NUMBER E-5104	PRIORITY CLASS I	PRIM. RSPN.	PROJECT ENGINEER
PROJECT TITLE Sleeve Type Antenna Kit for 7-21 Mcs.			
PROJECT REQUIREMENT To provide a sleeve type antenna kit in a compact packaged form which can be easily erected by two men in a short time.			
PROJECT DESCRIPTION To make a preliminary study of possible ways to construct this type antenna and then to write specifications and make suggested type construction drawings which can be used for having these made by a commercial firm under a contract.			
APPROVAL DATE July 1957	APPROV	STARTING DATE July 1957	COMPLETION DATE
The Drafting Room is expected to initiate work on the drawings for the new antenna design on or before August 1, 1957. Upon completion of the drawings and specifications, they will be submitted to various manufacturers so that bids may be requested for the cost of supplying such an antenna.			

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MONTHLY PROJECT REPORT

ORIGINATOR(S) [] 56-2716, CPL 7-006		BUDGET EST. FY. AMOUNT		REPORTING PERIOD 1 - 31 July 1957	
<input type="checkbox"/> FUTURE		<input checked="" type="checkbox"/> ACTIVE		<input type="checkbox"/> COMPLETED	
<input type="checkbox"/> CANCELLED		<input type="checkbox"/> SUSPENDED			
PROJECT NUMBER E-5344		PRIORITY CLASS I		PRIM. RSPN. []	
PROJECT ENGINEER []					
PROJECT TITLE New Receiver Facility in []					
PROJECT REQUIREMENT To construct a new permanent type radio receiving facility. Present receiving facilities are inadequate due to interference from transmitters located in close proximity and high electrical noise in the area.					
PROJECT DESCRIPTION To design and coordinate layout of receiver station with the Real Estate and Construction Division, Office of Logistics and appropriate Office of Communications divisions.					
APPROVAL DATE April 1957		APPROVED []		STARTING DATE April 1957	
COMPLETION DATE []					

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During this period a dispatch was forwarded to the field clarifying specific questions raised by the field regarding the new receiver building and technical characteristics of equipment planned for the facility. Invitations for bids were released by the OL/REA&CD field representative in the latter part of May and two firms replied with bids of \$93,133.08 and \$75,256.55 during this reporting period. The lower bid was later negotiated to \$73,209 and a contract awarded to the respective firm. An estimate prepared by the Real Estate and Construction Division amounted to \$85,000 and a like amount was budgeted for the project cost. Completion time for the new building and roadway is approximately 120 days.

Next 2 Page(s) In Document Exempt

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MONTHLY PROJECT REPORT

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ORIGINATOR(S) [] 55-334	BUDGET EST. FY. AMOUNT	REPORTING PERIOD 1 July - 31 July
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☐ FUTURE ☐ ACTIVE ☒ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER E-5445	PRIORITY CLASS I	PRIM. RSPN. []	PROJECT ENGINEER []	25X1A9A
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PROJECT TITLE Air Conditioning System - []	25X1A6B
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PROJECT REQUIREMENT
Extreme summer temperatures as well as large amounts of additional electronic equipment being installed necessitated air conditioning of the transmitter and receiver sites.

PROJECT DESCRIPTION
Coordinate all phases of planning with [] and the Real Estate and Construction Division, Office of Logistics. Order necessary parts and equipment and provide installation drawings and equipment delivery dates to the field. Coordinate with other offices of the Agency.

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APPROVAL DATE	APPROVED []	STARTING DATE 1 May 1955	COMPLETION DATE 31 July 1957	25X1A9A
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According to the May 1957 Monthly Report from [] "the air-conditioner (at the Receiver Site) is installed and working well." With this installation finished and operating satisfactorily this project is considered completed as of this report.

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